

SEQUENCE LISTING

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Barrington-Martin, Rory

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<120> METHODS AND COMPOSITIONS FOR DIAGNOSING AND TREATING
NEUROPSYCHIATRIC DISORDERS SUCH AS SCHIZOPHRENIA

<130> 3322/1H702 US1

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<160> 90

<170> PatentIn version 3.0

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275 280 285

Pro Ser Val Ser Leu Gln Ile Gln Lys Asn Phe Ala Lys Ser Lys Trp
290 295 300

Arg Gln Ala Phe Asn Ala Ala Val Val His His Met Arg Lys Leu
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His Met Asn Leu His Ser Pro Gly Val Arg Pro Glu Val Glu Asn Arg
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Ile Thr Ile Thr Glu Ala Pro Val Leu Asp His Ser Val Ala Leu Pro
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Leu	Glu	Asn	Glu	Ile	Ala	Val	Leu	Lys	Lys	Ile	Lys	His	Glu	Asn	Ile
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Val	Thr	Leu	Glu	Asp	Ile	Tyr	Glu	Ser	Thr	Thr	His	Tyr	Tyr	Leu	Val
				85					90					95	
Met	Gln	Leu	Val	Ser	Gly	Gly	Glu	Leu	Phe	Asp	Arg	Ile	Leu	Glu	Arg

				100					105					110					
Gly	Val	Tyr	Thr	Glu	Lys	Asp	Ala	Ser	Leu	Val	Ile	Gln	Gln	Val	Leu				
		115					120					125							
Ser	Ala	Val	Lys	Tyr	Leu	His	Glu	Asn	Gly	Ile	Val	His	Arg	Asp	Leu				
	130					135					140								
Lys	Pro	Glu	Asn	Leu	Leu	Tyr	Leu	Thr	Pro	Glu	Glu	Asn	Ser	Lys	Ile				
145					150					155					160				
Met	Ile	Thr	Asp	Phe	Gly	Leu	Ser	Lys	Met	Glu	Gln	Asn	Gly	Ile	Met				
				165					170					175					
Ser	Thr	Ala	Cys	Gly	Thr	Pro	Gly	Tyr	Val	Ala	Pro	Glu	Val	Leu	Ala				
			180					185					190						
Gln	Lys	Pro	Tyr	Ser	Lys	Ala	Val	Asp	Cys	Trp	Ser	Ile	Gly	Val	Ile				
		195					200					205							
Thr	Tyr	Ile	Leu	Leu	Cys	Gly	Tyr	Pro	Pro	Phe	Tyr	Glu	Glu	Thr	Glu				
	210					215						220							
Ser	Lys	Leu	Phe	Glu	Lys	Ile	Lys	Glu	Gly	Tyr	Tyr	Glu	Phe	Glu	Ser				
225					230					235					240				
Pro	Phe	Trp	Asp	Asp	Ile	Ser	Glu	Ser	Ala	Lys	Asp	Phe	Ile	Cys	His				
				245					250					255					
Leu	Leu	Glu	Lys	Asp	Pro	Asn	Glu	Arg	Tyr	Thr	Cys	Glu	Lys	Ala	Leu				
			260					265					270						
Ser	His	Pro	Trp	Ile	Asp	Gly	Asn	Thr	Ala	Leu	His	Arg	Asp	Ile	Tyr				
		275					280					285							
Pro	Ser	Val	Ser	Leu	Gln	Ile	Gln	Lys	Asn	Phe	Ala	Lys	Ser	Lys	Trp				
	290					295					300								
Arg	Gln	Ala	Phe	Asn	Ala	Ala	Ala	Val	Val	His	His	Met	Arg	Lys	Leu				
305					310					315					320				
His	Met	Asn	Leu	His	Ser	Pro	Gly	Val	Arg	Pro	Glu	Val	Glu	Asn	Arg				
				325					330					335					
Pro	Pro	Glu	Thr	Gln	Ala	Ser	Glu	Thr	Ser	Arg	Pro	Ser	Ser	Pro	Glu				
			340					345					350						
Ile	Thr	Ile	Thr	Glu	Ala	Pro	Val	Leu	Asp	His	Ser	Val	Ala	Leu	Pro				

355		360		365											
Ala	Leu	Thr	Gln	Leu	Pro	Cys	Gln	His	Gly	Arg	Arg	Pro	Thr	Ala	Pro
370						375					380				
Gly	Gly	Arg	Ser	Leu	Asn	Cys	Leu	Val	Asn	Gly	Ser	Leu	His	Ile	Ser
385					390					395					400
Ser	Ser	Leu	Val	Pro	Met	His	Gln	Gly	Ser	Leu	Ala	Ala	Gly	Pro	Cys
				405					410					415	
Gly	Cys	Cys	Ser	Ser	Cys	Leu	Asn	Ile	Gly	Ser	Lys	Gly	Lys	Ser	Ser
			420					425					430		
Tyr	Cys	Ser	Glu	Pro	Thr	Leu	Leu	Lys	Lys	Ala	Asn	Lys	Lys	Gln	Asn
		435					440					445			
Phe	Lys	Ser	Glu	Val	Met	Val	Pro	Val	Lys	Ala	Ser	Gly	Ser	Ser	His
	450					455					460				
Cys	Arg	Ala	Gly	Gln	Thr	Gly	Val	Cys	Leu	Ile	Met				
465					470					475					

<210> 6

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n = a or g or c or t/u

<400> 6

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ccggcagagg gaggaaggca ganaagtgga gcagggctta gcaggagcag tttctggcca	120
gaagcaccag cctgctgcca gcgggggcanc gcctcatagg aggcccagga gggagcccca	180

aggctnagaa gccttggtga agctgtgagc aggagaagcg gtgcccacca gcttccaggt 240
ctccctgacc tggcctgctc tatgccccac accctnacgt ggccgtggnt ctgtngcagt 300
gttacgttag atagcttttc gcctggggtn ttgttggtgt tttgttcgtg aaaagcttta 360
atgggggtng gccagggtn ttttca 386

<210> 7

<211> 501

<212> DNA

<213> Homo sapiens

400> 7
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cagagggagg aaggcagagc aagtggagca gggcttagca ggagcagttt ctggccagaa 120
gcaccagcct gctgccagcg gggcagcccc tcataggagg cccaggagg agccccaagg 180
cgtaaaagcc ttgttgaagc tgtgagcagg agaagcgggtg cccaccagct tccaggtctc 240
cctgacctgc ctgctctatg cccacacccc tacgtgccgt ggctctgtgc agtgtacgta 300
gatagctctc gcctgggtct gtgctgtttg tcgtgaaaag cttaatgggc tggccaggct 360
gtgtcacctt ctccaagcaa agccatatgg agcatctacc cagactccca ctctgcacac 420
actcactccc acctctcaag cotccaacct cttggccaga ttgggctcat taatgtcgtt 480
gcctgcccac ctgcatgaat g 501

<210> 8

<211> 20

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 8
agaaggggaag aatgggggag 20

<210> 9

<211> 20

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 9
gagacggatg aattggctgg 20

<210> 10

<211> 22

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 10
cagtccaaca ggtgagtcac cg 22

<210> 11

<211> 20

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 11

gggaacgaga aggggtaagc

20

<210> 12

<211> 18

<212> DNA

<213> Artificial

<220>

<223> DNA primer

<400> 12

ggggagcttg ggggagca

18

<210> 13

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 13

actttccttg gcagcctggt c

21

<210> 14

<211> 20

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 14

cctgcccact ccctggatga

20

<210> 15

<211> 20

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 15

gctgcggttga aggcttgcta

20

<210> 16

<211> 22

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 16

cacaaggcaa agggaaagtt ta

22

<210> 17

<211> 20

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 17

cattgacca ggcagttgag

20

<210> 18

<211> 20

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 18

cctgacccaa ttaccctgcc

20

<210> 19

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 19

ccccctcatc cagaactcat c

21

<210> 20

<211> 24

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 20

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24

<210> 21

<211> 30

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 21

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30

<210> 22

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cctctctgtg aaatggcatt gac

23

<210> 23

<211> 30

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 23

gtttcttaat gcctgggtcaa ataccgtagg

30

<210> 24

<211> 22

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 24

agccaaaact gacaccagga ag

22

<210> 25

<211> 28

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 25

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28

<210> 26

<211> 20

<212> DNA

<213> artificial

<220>

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<400> 26

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<213> artificial

<220>

<223> DNA primer

<400> 27

gtttcttgct ttgatggaaa tagtattatg c

31

<210> 28

<211> 23

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 28

tgaaataaat gtgctctggg ctc

23

<210> 29

<211> 26

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 29

gtttcttcca gcctgcctcc actcag

26

<210> 30

<211> 20

<212> DNA

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<220>

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20

<210> 31

<211> 31

<212> DNA

<213> artificial

<220>

<223> DNA primer

<220>

<221> misc_feature

<223> "n" = a or g or c or t/u

<400> 31

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31

<210> 32

<211> 23

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 32

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<210> 33

<211> 27

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<213> artificial

<220>

<223> DNA primer

<400> 33

gtttcttcag ccatttaggg acctgcc

27

<210> 34

<211> 22

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 34

ttaccccttt ctcgttcct cc

22

<210> 35

<211> 31

<212> DNA

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<220>

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<400> 35

gtttccttaga tgtaggaaca gaggggtccac c

31

<210> 36

<211> 317

<212> PRT

<213> Homo sapiens

<400> 36

Lys Gln Ala Glu Asp Ile Arg Asp Ile Tyr Asp Phe Arg Asp Val Leu
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Gly Thr Gly Ala Phe Ser Glu Val Ile Leu Ala Glu Asp Lys Arg Thr
20 25 30

Gln Lys Leu Val Ala Ile Lys Cys Ile Ala Lys Glu Ala Leu Glu Gly
35 40 45

Lys Glu Gly Ser Met Glu Asn Glu Ile Ala Val Leu His Lys Ile Lys
50 55 60

His Pro Asn Ile Val Ala Leu Asp Asp Ile Tyr Glu Ser Gly Gly His
65 70 75 80

Leu Tyr Leu Ile Met Gln Leu Val Ser Gly Gly Glu Leu Phe Asp Arg
85 90 95

Ile	Val	Glu	Lys	Gly	Phe	Tyr	Thr	Glu	Arg	Asp	Ala	Ser	Arg	Leu	Ile	
			100					105					110			
Phe	Gln	Val	Leu	Asp	Ala	Val	Lys	Tyr	Leu	His	Asp	Leu	Gly	Ile	Val	
		115					120					125				
His	Arg	Asp	Leu	Lys	Pro	Glu	Asn	Leu	Leu	Tyr	Tyr	Ser	Leu	Asp	Glu	
	130					135					140					
Asp	Ser	Lys	Ile	Met	Ile	Ser	Asp	Phe	Gly	Leu	Ser	Lys	Met	Glu	Asp	
145					150					155					160	
Pro	Gly	Ser	Val	Leu	Ser	Thr	Ala	Cys	Gly	Thr	Pro	Gly	Tyr	Val	Ala	
				165					170					175		
Pro	Glu	Val	Leu	Ala	Gln	Lys	Pro	Tyr	Ser	Lys	Ala	Val	Asp	Cys	Trp	
			180					185					190			
Ser	Ile	Gly	Val	Ile	Ala	Tyr	Ile	Leu	Leu	Cys	Gly	Tyr	Pro	Pro	Phe	
		195					200					205				
Tyr	Asp	Glu	Asn	Asp	Ala	Lys	Leu	Phe	Glu	Gln	Ile	Leu	Lys	Ala	Glu	
	210					215					220					
Tyr	Glu	Phe	Asp	Ser	Pro	Tyr	Trp	Asp	Asp	Ile	Ser	Asp	Ser	Ala	Lys	
225					230					235					240	
Asp	Phe	Ile	Arg	His	Leu	Met	Glu	Lys	Asp	Pro	Glu	Lys	Arg	Phe	Thr	
				245					250					255		
Cys	Glu	Gln	Ala	Leu	Gln	His	Pro	Trp	Ile	Ala	Gly	Asp	Thr	Ala	Leu	
			260					265					270			
Asp	Lys	Asn	Ile	His	Gln	Ser	Val	Ser	Glu	Gln	Ile	Lys	Lys	Asn	Phe	
		275					280					285				
Ala	Lys	Ser	Lys	Trp	Lys	Gln	Ala	Phe	Asn	Ala	Thr	Ala	Val	Val	Arg	
	290					295					300					
His	Met	Arg	Lys	Leu	Gln	Leu	Gly	Thr	Ser	Gln	Glu	Gly				
305					310					315						

<210> 37

<211> 21

<212> DNA

<213> Homo sapiens

<400> 37

actacatatt gtttctccta c

21

<210> 38

<211> 21

<212> DNA

<213> Homo sapiens

<400> 38

acctcttctc caagcctggc c

21

<210> 39

<211> 21

<212> DNA

<213> Homo sapiens

<400> 39

gataaccccc gttctatgaa g

21

<210> 40

<211> 21

<212> DNA

<213> Homo sapiens

<400> 40

gggtgggaaa tctgttctgg g 21

<210> 41

<211> 21

<212> DNA

<213> Homo sapiens

<400> 41
ttggagctcc ctgtaccctc t 21

<210> 42

<211> 21

<212> DNA

<213> Homo sapiens

<400> 42
cagcccggga atccgcccag a 21

<210> 43

<211> 23

<212> DNA

<213> Artificial

<220>

<223> DNA Primer

<400> 43
tggagaatga gattgctgtg ttg 23

<210> 44

<211> 23

<212> DNA

<213> Artificial

<220>

<223> DNA Primer

<400> 44

catctatgag agcaccaccc act

23

<210> 45

<211> 27

<212> DNA

<213> Artificial

<220>

<223> DNA probe

<400> 45

tcaagcatga aaacattgtg accctgg

27

<210> 46

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a or g or c or t/u

<400> 46

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cctggaagaa acagaccacc aacatccgga aaaccttcat ttttatggaa gtgctgggat 120
caggagcttt ctcagaagtt ttcttggtga agcaaagact gactgggaag ctctttgctc 180
tgaagtgcac caagaagtca cctgccttcc gggacagcag cctggagaat gagattgctg 240
tgttgaaaaa gatcaagcat gaaaacattg tgaccctgga ggacatctat gagagcacca 300
cccactacta cctggatcatg cagcttggtt ctggtgggga gctctttgac cggatcctgg 360
agcgggggtgt ctacacagag aaggatgcca gtctggtgat ccagcaggtc ttgtcggcag 420
tgaaatacct acatgagaat ggcacgtcc acagagactt aaagcccgaa aacctgcttt 480

<210> 47

<211> 467

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a or g or c or t/u

<400> 47

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cctggaagaa acagaccacc aacatccgga aaaccttcat ttttatggaa gtgctgggat 120
caggagcttt ctcanaagtt ttcttggtga agcaaagact gactgggaag ctctttgctc 180

tgaagtgc	atcaaga	ctgccttc	gggacagcag	cctgnagaat	gagattgctg	240
tgttgaaaa	gatcaagcat	gaaaacattg	tgaccctgga	ggacatctat	gagagcacca	300
cccactacta	cctgntcatg	caacttggtt	ctggtgggga	gctctttgac	ccggatcctg	360
gagcggngtg	tctacacaga	gaaggatgcc	agnctgggtg	atccacangt	cttgtcngca	420
gtgaaatacc	tacatgagaa	tggcatcgtn	cacagagact	taaagcc		467

<210> 48

<211> 470

<212> DNA

<213> Homo sapiens

<220>

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<223> n=a or g or c or t/u

<400> 48

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tcaggagctt	tctcagaaaag	ttttccctgg	tgaagcaaag	actgactggg	aagctctttg	180
ctctgaagtg	catcaagaag	tcacctgcct	tccgggacag	cagcctggag	aatgagattg	240
ctgtgttgaa	aaagatcaag	catgaaaaca	ttgtgaccct	ggaggacatc	tatgagagca	300
ccaccacta	ctacctggtc	atgcagcttg	tttctggtgg	ggagctcttt	gacccggatc	360
ctggagcggg	gtgtctacac	agagaaggat	gccagnctgg	gtgatccaca	ngtcttgtcn	420
gcagtgaaat	acctacatga	gaatggcatc	gtncacagag	acttaaagcc		470

<210> 49

<211> 356

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a or g or c or t/u

<400> 49

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cctggaagaa acagaccacc aacatcccg aaaccttca tttttatgga agtgctggga 120
tcaggagctt tctcagaaag ttttccttgg tgaagcaaag actgactggg aagctctttg 180
ctctgaagtg catcaagaag tcacctgcct tccgggacag cagcctggag aatgagattg 240
ctgtgttgaa aaagatcaag catgaaaaca ttgtgaccct ggaggacatc tatgagagca 300
tcacccacta ctacctgggc atgcagcttg nttctggtgg ggagctcttt gaccgcg 356

<210> 50

<211> 319

<212> DNA

<213> Homo sapiens

<400> 50

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caggagcttt ctcaagaagt ttcttggtga agcaaagact gactgggaag ctctttgctc 180
tgaagtgcac caagaagtca cctgccttcc gggacagcag cctggagaat gagattgctg 240

tggttgaaaaa gatcaagcat gaaaacattg tgaccctgga ggacatctat gagageacca	300
cccactacta cctgggtcat	319

<210> 51

<211> 24

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 51

gtcatcacc cattcaggat aatg	24
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<210> 52

<211> 24

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 52

ttaagcaagg agaccctcta aagc	24
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<210> 53

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 53

ctgggtctgt gctgtttgtc g

21

<210> 54

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 54

gaagtgtgct ggctgggtct c

21

<210> 55

<211> 18

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 55

tcgttgctg cccatctg

18

<210> 56

<211> 22

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 56

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22

<210> 57

<211> 24

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 57

ggagtcattct ggagagttta tgcc

24

<210> 58

<211> 26

<212> DNA

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<220>

<223> DNA primer

<400> 58
tggttcacttt cttgagtgtg acaatg 26

<210> 59

<211> 26

<212> DNA

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<220>

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<400> 59
cccagttct gtaagagata acaagc 26

<210> 60

<211> 18

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 60
cggctctgct caccctcc 18

<210> 61

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 61

agaggggagca cagagtttcc g

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<210> 62

<211> 25

<212> DNA

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<223> DNA primer

<400> 62

cagaacatct acactggctg acatg

25

<210> 63

<211> 26

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<220>

<223> DNA primer

<400> 63

ggcttggtta tctttatctt ttctgc

26

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<220>

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<400> 64

catcactcac actctggcat gg

22

<210> 65

<211> 21

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<220>

<223> DNA primer

<400> 65

agtggactct agaccccagc c

21

<210> 66

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 66

tcaggacaag cagattccag g

21

<210> 67

<211> 20

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 67

cagtacccat cggcaccttg

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<210> 68

<211> 20

<212> DNA

<213> artificial

<220>

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<400> 68

cacagtgctg ggcaaatagt

20

<210> 69

<211> 20

<212> DNA

<213> artificial

<220>

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<400> 69
ctatttgccc agcactgtgc

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<210> 70

<211> 22

<212> DNA

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<220>

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<400> 70
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22

<210> 71

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<212> DNA

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<220>

<223> DNA primer

<400> 71
ctctgttcct ttggatattc cactc

25

<210> 72

<211> 24

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 72

aaatggtgtc tcactcatca ctcc

24

<210> 73

<211> 26

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 73

gaggaacaaa ctttcttttt gttcaa

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<210> 74

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 74

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21

<210> 75

<211> 21

<212> DNA

<213> artificial

<220>

<223> DNA primer

<400> 75

tcagggttggc ctccaaaact a

21

<210> 76

<211> 19

<212> DNA

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